AMENDMENT UNDER 37 C.F.R. § 1.114(c) U.S. APPLICATION NO. 10/662,380 ATTORNEY DOCKET NO. Q77335

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application: LISTING OF CLAIMS:

1. (Currently Amended) A phase shifted binary transmission encoder with a data input and a data output, where the phase shifted binary transmission encoder comprises:includes an exclusive OR or gate comprising having two inputs and an output, the output of the exclusive OR or gate being the data output of the phase shifted binary transmission encoder, and

first and second transparent D flip-flops connected to a clock input, wherein where one input of the exclusive OR or gate is connected with the data output via the a-first flip-flop and the other input of the exclusive OR or gate is connected with the data input via the a-second flip-flop, wherein a read-in pulse of the first and second flip-flops lies within one bit of the data input signal and is shorter than the delay within the exclusive OR gateboth flip-flops being connected with a clock input, wherein the flip-flops are transparent D flip flops.

- 2. (*Original*) A phase modulator comprising the phase shifted binary transmission encoder according to claim 1.
- 3. (*Original*) An optical network element comprising a phase modulator according to claim 2 for phase shaped binary transmission.

2